ABSTRACT OF THE DISCLOSURE

A power meter reader system for automatically reading an indication on a power meter unit having a cyclical property that varies at a rate indicative of power consumption. The system comprises a detection unit that includes a sensor unit for monitoring the cyclical property of the indication and generating a consumption detection signal, a processing unit for generating an information signal based on data related to the consumption detection signal, and a transmitter for transmitting a transmission signal based on the information signal. The processing unit also generates a sensor enable signal to enable the sensor unit for only a portion of the cyclical property of the indication. The system further includes a display unit located remotely with respect to the detection unit for receiving the transmission signal and displaying the power consumption. The detection unit may also employ a prediction model for reducing power consumption in the detection unit.